

IN THE CLAIMS

1-19. **(Cancelled)**

20. **(Currently Amended)** A method of communicating data over a voice channel of a wireless communication system, comprising the steps of:

generating a periodic data signal modulated with data and periods of silence, **wherein the periods of silence comprise gaps in the data during which no modulation occurs**; and

sending the periodic data signal as a voice communication through a vocoder and over a voice channel of a wireless communication system.

21. **(Previously Presented)** The method of claim 20, wherein the wireless communication system is a cellular network.

22. **(Previously Presented)** The method of claim 20, wherein the network transmission standard is CDMA, TDMA, or GSM.

23. **(Previously Presented)** The method of claim 20, wherein the generating step further comprises generating the periodic data signal with a data sequence using frequency shift keying.

24. **(Previously Presented)** The method of claim 20, wherein the duration of each of the periods of silence is within the range of about 25 milliseconds to about 1000 milliseconds.

25. **(Previously Presented)** The method of claim 20, wherein the generating step further comprises receiving a first periodic data signal and producing a second periodic data signal by modulating the first periodic data signal with the periods of silence.

26. **(Previously Presented)** The method of claim 25, wherein producing the second periodic data signal further comprises the steps of:

receiving a control signal, the control signal supplying parameters for a length of the periods of silence and timing between the periods of silence; and

producing the second periodic data signal by modulating the first periodic data signal based on the received control signal.

27. **(Previously Presented)** The method of claim 20, wherein the length of the periods of silence are variable.

28. **(Previously Presented)** The method of claim 27, further comprising the steps of:
receiving a response to the periodic data signal over the voice channel of the wireless carrier network; and
varying the length of the periods of silence based on the response.

29. **(Currently Amended)** A method of communicating data over a voice channel of a wireless communication system, comprising the steps of:

establishing a cellular voice call over a voice channel of a wireless communication system using a selected network transmission standard;

generating a periodic data signal modulated with (i) data using frequency shift keying and (ii) periods of silence **during which no frequency shift keying modulation occurs; at periodic time intervals;** and

sending the periodic data signal to a call center over the voice channel of the wireless communication system, whereby the periodic data signal is sent over the wireless communication system using a carrier signal that is transmitted during portions of the periodic data signal that contain the data and during portions of the periodic data signal that contain the periods of silence.

30. **(Previously Presented)** The method of claim 29, further comprises the steps of:
(a) generating the periodic data signal using frequency shift keying; and
(b) modulating the periodic data signal with periods of silence that are added at the periodic time intervals.

31. **(Previously Presented)** The method of claim 30, wherein step (a) is carried out prior to step (b).

32. **(Previously Presented)** The method of claim 29, wherein the network transmission standard is CDMA, TDMA, or GSM.

33. **(Currently Amended)** The method of claim 29, wherein the periods of silence comprise frame gaps ~~during which no frequency shift keying modulation occurs.~~

34. **(Previously Presented)** A method of communicating data over a voice channel of a wireless communication system, comprising the steps of:

generating a data signal that includes modulated data and periods of silence during which the data signal is unmodulated; and

sending the data signal as a voice communication over a voice channel of a wireless communication system.

35. **(Previously Presented)** The method of claim 34, wherein the wireless communication system is a cellular network.

36. **(Previously Presented)** The method of claim 34, wherein the network transmission standard is CDMA, TDMA, or GSM.

37. **(Previously Presented)** The method of claim 34, wherein the generating step further comprises generating the data signal with a data sequence using frequency shift keying.

38. **(Previously Presented)** The method of claim 34, wherein the duration of each of the periods of silence is within the range of about 25 milliseconds to about 1000 milliseconds.

39. **(Previously Presented)** The method of claim 34, wherein the generating step further comprises receiving a first periodic data signal and producing a second periodic data signal by modulating the first periodic data signal with the periods of silence.

40. **(Previously Presented)** The method of claim 39, wherein producing the second periodic data signal further comprises the steps of:

receiving a control signal, the control signal supplying parameters for a length of the periods of silence and timing between the periods of silence; and

producing the second periodic data signal by modulating the first periodic data signal based on the received control signal.

41. **(Previously Presented)** The method of claim 34, wherein the length of the periods of silence are variable.

42. **(Previously Presented)** The method of claim 41, further comprising the steps of:
receiving a response to the data signal over the voice channel of the wireless carrier network; and
varying the length of the periods of silence based on the response.